

ICDF Landfill Final Cover Hydrologic Model

Discussion Topics

- ① *Review 30% Hydrologic Cover Study*
- ② *Review 60% Hydrologic Cover Study*
- ③ *IDEQ Comments*
- ④ *Path Forward*

60% Hydrologic Study Review

- ***Include Surface Water Run-Off***
- ***Defect Analysis***
- ***Determine Percolation Through Compacted Clay Liner and Lateral Drainage***
- ***Sensitivity Analysis***

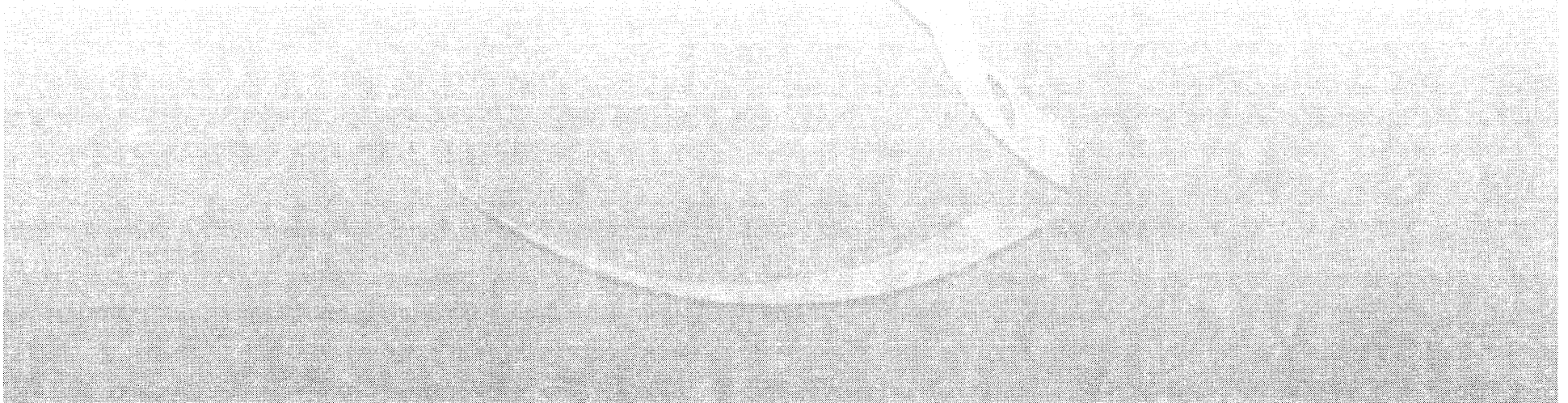
Overall Approach: Continue to use existing 1-D model from 30% and evaluate other components analytically

60% Hydrologic Study Review

Surface Water Run-Off

Method:

- ① Calculate daily run-off using SCS curve number method***
- ② Subtract daily run-off from precipitation amount***
- ③ Re-run Cover Soil with adjusted precipitation amount***



60% Hydrologic Study Review

Surface Water Run-Off

	Base Case	Extreme Case
Average Annual Run-Off	1 mm	3 mm
Percent of Precipitation	0.6%	1%
Average Annual Breakthrough With Run-Off	0.41 mm	0.46 mm
Average Annual Breakthrough Without Run-Off	0.38 mm	0.48 mm

Conclusion: No change in breakthrough, so surface run-off has an insignificant effect of water flow through cover

60% Hydrologic Study Review

Surface Water Run-Off

